

## **WHAT IS CLAIMED IS:**

1. A call connection method, comprising:  
  
receiving a request for a call connection;  
  
comparing loads supported by a plurality of packet processors; and  
  
assigning the call connection to a first packet processor having a first load that is no larger than a second load supported by any other of the plurality of packet processors.
  
2. The method of claim 1, further comprising:  
  
determining an accumulated packet holding time of each of the plurality of packet processors;  
  
determining the load supported by each of the plurality of packet processors based on the corresponding accumulated packet holding time; and  
  
comparing the loads of the respective packet processors.
  
3. The method of claim 2, wherein each of the plurality of packet processors measures a packet holding time at a regular interval and reports the corresponding accumulated packet holding time to a call assignment processor.

4. The method of claim 3, wherein the packet holding time is a time difference between a time the respective packet processor becomes busy, due to a transmission of packet data, and a time the respective packet processor becomes idle.

5. The method of claim 2, wherein each of the plurality of processors reports the respective accumulated packet holding time periodically and the period is set by a user.

6. The method of claim 1, wherein the load supported by each of the plurality of processors is determined by dividing a corresponding accumulated packet holding time by a report period.

7. The method of claim 1, wherein the call connection is a data services call.

8. The method of claim 1, wherein the call connection is assigned in a predetermined order when multiple packet processors of the plurality of packet processors have equivalent loads that are no larger than the load of any other of the plurality of packet processors.

9. A method for assigning packet resources, comprising:  
receiving a request for a call connection from a terminal;

determining an accumulated packet holding time for each of a plurality of packet processors;

comparing loads supported by each of the plurality of packet processors on the basis of their corresponding accumulated packet holding times; and

assigning the packet resources to support the requested call connection from a first packet processor having a first load that is no larger than a second load supported by any other of the plurality of packet processors.

10. The method of claim 9, wherein each of the plurality of packet processors measures a packet holding time at a regular interval and reports the corresponding accumulated packet holding time to a call assignment processor.

11. The method of claim 10, wherein the packet holding time is a time difference between a time the respective packet processor becomes busy, due to a transmission of packet data, and a time the respective packet processor becomes idle.

12. The method of claim 9, wherein the load supported by each of the plurality of packet processors is determined by dividing the corresponding accumulated packet holding time by a report period.

13. The method of claim 9, wherein each of the plurality of packet processors reports the respective accumulated packet holding time periodically and the period is set by a user.

14. The method of claim 9, wherein the call connection is a data services call.

15. The method of claim 9, wherein the call connection is assigned in a predetermined order when multiple packet processors have equivalent loads that are no larger than the load of any other of the plurality of packet processors.

16. A packet processing device, comprising:

a plurality of packet processing means each for processing packet data of a communication; and

a call assignment means for assigning a resource of a particular packet processing means to support the communication, wherein

the call assignment means assigns the resource from the particular packet processing means based on a relative resource utilization of the plurality of packet processing means.

17. The device of claim 16, wherein the call assignment means assigns the resource from the particular packet processing means having a corresponding resource utilization no greater than that of any other of the plurality of packet processing means.

18. The device of claim 16, wherein the resource utilization is a processing load supported by each of the plurality of packet processing means.

19. The device of claim 16, wherein:

the resource utilization of each of the plurality of packet processing means is a processing duty cycle determined by the ratio of the respective packet processing means' busy time to a duty period; and

the busy time is a cumulative time the respective packet processing means devotes to processing the packet data during the duty period.

20. A communication system, comprising:

multiple terminals that each communicate packet data in a call;

a plurality of packet processing means for processing the packet data; and

a call assignment means for assigning a resource of a particular packet processing means to support the call, wherein

the call assignment means assigns the resource from the particular packet processing means having a dynamically changing resource utilization no greater than that of any other of the plurality of packet processing means to support the call.

21. A communication method, comprising:

determining a processing utilization of resources of each of multiple packet processing functions;

selecting a particular packet processing function based on a relative processing utilization of resources of the packet processing functions; and

assigning a resource of the particular packet processing function to support a packet data communication.

22. The method of claim 21, wherein the particular packet processing function has a corresponding processing utilization of resources no greater than that of any other packet processing functions.

23. The method of claim 21, wherein the processing utilization of resources is a processing load supported by each of the packet processing functions.

24. The method of claim 21, wherein:

the processing utilization of resources of each of the packet processing functions is a processing duty cycle determined by the ratio of the respective packet processing function's busy time to a duty period; and

the busy time is a cumulative time the respective packet processing function devotes to processing packet data during the duty period.

25. The method of claim 21, further comprising:

communicating packet data from a first terminal to a second terminal by wireless communication; and

processing the packet data using the resource of the particular packet processing function assigned to the packet data communication.